

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A communication apparatus for converting a frequency of received signals from ~~plurality of hand sets~~ first and second hand sets (A, B), whose transmission and reception frequency band are different, and retransmitting the signals; ~~having said communication apparatus comprising:~~

a whole spectrum inverter (40) for inverting a frequency spectrum including the first and second received signals from the ~~plurality of~~ first and second hand sets (A, B); ~~said communication apparatus, wherein~~

the ~~plurality of~~ first and second received signals included in the frequency spectrum inverted in the whole spectrum inverter (40) are retransmitted.

2. (Currently Amended) The communication apparatus according to Claim 1, ~~having further including:~~

filters (43, 31) for attenuating signal components other than the ~~plurality of~~ first and second received signal components included in the frequency spectrum inverted by the whole spectrum inverter ~~said communication apparatus, (40); wherein~~

the ~~plurality of~~ first and second received signals included in the frequency spectrum outputted from the filters (43, 31) are transmitted.

3. (Currently Amended) ~~The A~~ communication apparatus according to Claim 1,  
~~having for converting a frequency of received signals from a plurality of hand sets (A, B)~~  
and retransmitting the signals; said communication apparatus comprising:

a whole spectrum inverter (40) for inverting a frequency spectrum including the  
received signals from the plurality of hand sets (A, B), and

a partial spectrum inverter (105, 106) for inverting a frequency spectrum for each  
spectrum of the plurality of received signals included in the frequency spectrum; wherein  
the plurality of received signals included in the frequency spectrum inverted in the  
whole spectrum inverter (40) are retransmitted.

4. (Currently Amended) The communication apparatus according to Claim 3,  
wherein

the partial spectrum inverter is an arithmetic signal processing means processor  
(105, 106).

5. (Currently Amended) The communication apparatus according to Claim 1,  
wherein

the whole spectrum inverter is a frequency converting means converter.

6. (Currently Amended) The communication apparatus according to Claim 3,  
wherein

the whole spectrum inverter (40) and the partial spectrum inverter ~~are~~ (105, 106)  
include an arithmetic signal processing means processor.

7. (Original) The communication apparatus according to Claim 6, wherein

the partial spectrum inverter is provided before the whole spectrum inverter.

8. (Currently Amended) A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

complementing sample data obtained by the sampling to convert a sampling rate;  
and

extracting by a bandpass filter only a spectrum of the signal, generated by the sampling, whose frequency spectrum is inverted out of frequency spectrums after the conversion of the sampling rate so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

9. (Currently Amended) A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

decimating sample data obtained by the sampling to convert a sampling rate; and

extracting by a bandpass filter only a spectrum of the signal, generated by the conversion of the sampling rate, whose frequency spectrum is inverted so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

10. (Currently Amended) A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

setting part of the sample data obtained by the sampling to zero; and

extracting by a bandpass filter or lowpass filter only a spectrum of the signal, generated by setting part of the sample data obtained by the sampling to zero, whose frequency spectrum is inverted so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

11. (Currently Amended) A ~~program~~-storage medium, storing a computer readable program that is executed by a computer,

~~a program for~~ wherein said program includes instructions for executing the  
frequency spectrum inversion method according to claim 8.

12. (New) A storage medium, storing a computer readable program that is  
executed by a computer,

wherein said program includes instructions for executing the frequency spectrum  
inversion method according to Claim 9.

13. (New) A storage medium, storing a computer readable program that is  
executed by a computer,

wherein said program includes instructions for executing the frequency spectrum  
inversion method according to Claim 10.

14. (New) The frequency spectrum inversion method according to Claim 8;  
wherein

a value subtracted the first frequency from the fourth frequency is equal to a value  
subtracted the second frequency from the third frequency.

15. (New) The frequency spectrum inversion method according to Claim 9;  
wherein

a value subtracted the first frequency from the fourth frequency is equal to a value  
subtracted the second frequency from the third frequency.

16. (New) The frequency spectrum inversion method according to claim 10;  
wherein

a value subtracted the first frequency from the fourth frequency is equal to a value subtracted the second frequency from the third frequency.

17. (New) A communication apparatus comprising:

a receiver (20) for receiving a signal having a first frequency (fta) within a transmission frequency band of hand set as a first reception signal from a first hand set (A) and a signal having a second frequency (ftb) within the transmission frequency band as a second reception signal from a second had set (B),

a whole spectrum inverter (40) for inverting in a lump a frequency spectrum including the first and second reception signals so that the first reception signal is converted to a second transmission signal having a third frequency (frb) within a reception frequency band of hand set and the second reception signal is converted to a first transmission signal having a fourth frequency (fra) within the reception frequency band, and

a transmitter (30) for transmitting the second transmission signal from the whole spectrum inverter (40) to the second hand set (B) and the first transmission signal from the whole spectrum inverter (40) to the first hand set (A); wherein

a value subtracted the first frequency (fta) of the first reception signal transmitted by the first had set (A) from the fourth frequency (fra) of the first transmission signal transmitted to the first hand set (A) is equal to a value subtracted the second frequency (ftb) of the second reception signal transmitted by the second hand set (B) from the third frequency (frb) of the second transmission signal transmitted to the second had set (B) in

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order to achieve a fixed duplex interval communication between the first and second hand sets (A, B).